Specification for IBAA Class 1a Fill

Material: Class 1a Fill IBAA

Size Fraction: 0/100MM

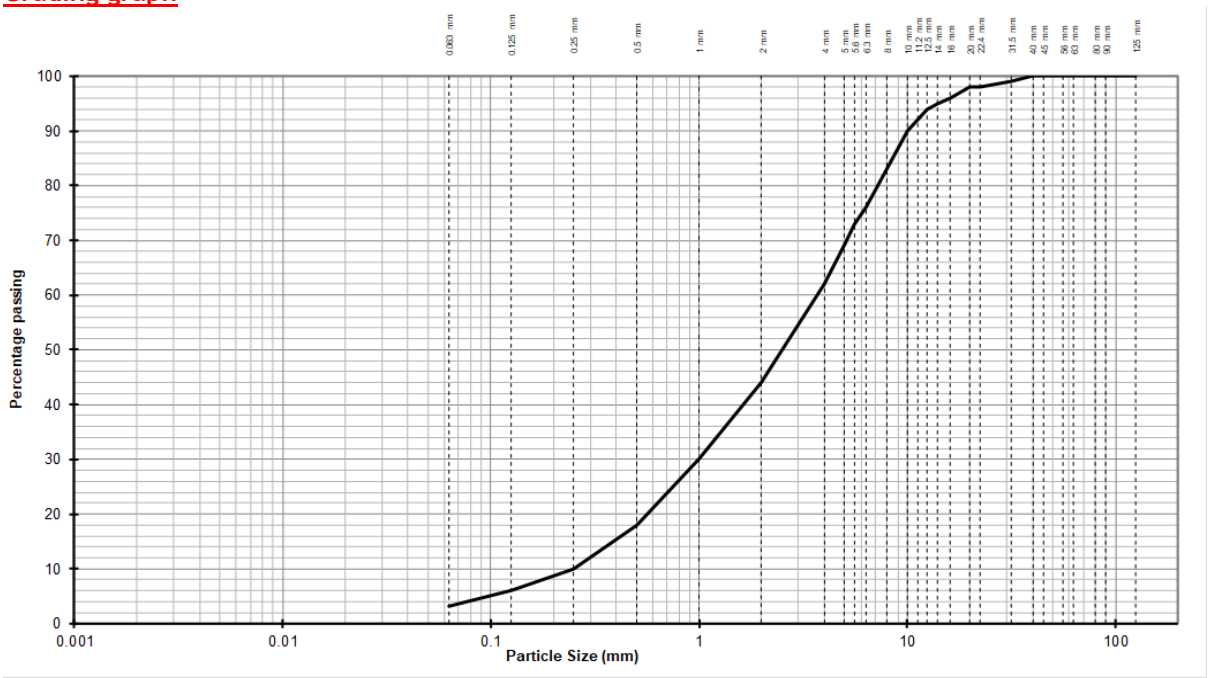
Constituents: IBA Ash, Brick, Concrete, Rock, Stone, glass, sand etc, may contain trace metals (typically <2%).

Gradings/specifications available for Class 1a Fill IBAA:

- Grading
- Asbestos Screening
- Chemical analysis
- Other testing on request, please contact the sales team to discuss requirements

If you have any questions or require any other information, please do not hesitate to the sales office on 01159 213454 or email: sales@johnsonsaggregates.com

Grading graph



Typical IBAA Class 1a fill grading chart

Sieve size mm	% Passing
125	100
90	100
80	100
63	100
56	100
45	100
40	100
31.5	99
22.4	98
20	98
16	96
14	95
12.5	94
11.2	92
10	90
8	83
6.3	76
5.6	73
5	69
4	62
2	44
1	30
0.5	18
0.25	10
0.125	6
0.063	3.1

IBAA Regulatory Position Statement

IBAA material fully conforms with the applicable SHW requirements for a Manufactured Aggregate
SHW 600 Earthworks - Manufactured /Secondary IBA Aggregates
RPS 206: Using unbound municipal IBAA in construction activities
This regulatory position statement (RPS) applies if you use unbound municipal incinerator bottom ash aggregate (IBAA) in certain construction activities. It also covers the storage of the IBAA that relates to its use.
Unbound IBAA includes IBAA in hydraulically bound mixtures (HBMs). A HBM is where the IBAA is mixed with water and a binder such as cement to form a mixture which then sets.
Processed for use in:

- **Building a road sub-base**
- **Building a construction or structural platform**
- **Pipe bedding**

Restrictions on amounts apply see RPS 206 for details (see table below)

RPS 017 The Regulation of Materials under Consideration for an End-of-Waste Quality Protocol
Annex 2 - Waste streams to which this position applies
Annex 2 sets out the requirements for each of the waste streams to which this position applies:

- incinerator bottom ash aggregate (IBAA).

Final use - **Incinerator bottom ash aggregate (IBAA)**
Processed for use in:

- **unbound applications e.g. replacement aggregates in culverts, bridge abutments and as fill beneath ground-bearing slabs, sub-base and capping layers**

SHW 800 – Hydraulically Bound Materials
820 Aggregates
Aggregates used in **Hydraulically Bound Material** shall comply with **BS EN 13242** and selected requirements listed in **Table 8/12** and tested in accordance with **Clause 710**
Clause 710 Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate – **N/A for Manufactured** or Secondary Materials

SHW 801 – General requirements for Unbound Mixtures
Unbound mixtures shall comply with **BS EN 13285** and requirements listed in **Table 8/1** and clauses **802 – 807** (as required by customer)
The amount of IBAA you can use depends on the distance to a surface water body as shown in the following table.

Distance to water body (metres)	Maximum tonnage (tonnes)	Volume after compaction assuming 1.7T/m3 (m3)	Maximum surface area of a structural platform (m2)
25-50	4,420	2,600	2,600
50-100	6,800	4,000	4,000
100-150	13,600	8,000	8,000
150-200	20,400	12,000	12,000
200-250	27,200	16,000	16,000
250-300	34,000	20,000	20,000
300-350	40,800	24,000	24,000
350-400	47,600	28,000	28,000
400-450	54,400	32,000	32,000
450-500	61,200	36,000	36,000
More than 500	68,000	40,000	40,000

Material characterisation

All JAR Material fully complies with BS EN 12457:2002 Leachate limits for waste materials.

BS EN 12457-2:2002

Characterisation of waste. Leaching. Compliance test for leaching of granular waste materials and sludges. One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction)

BS EN 12457-4:2002

Characterisation of waste. Leaching. Compliance test for leaching of granular waste materials and sludges. One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 10 mm (without or with size reduction)

Determinand		BS EN 12457 mg/Kg
Arsenic	As	2
Barium	Ba	100
Cadmium	Cd	1
Chromium	Cr	10
Copper	Cu	50
Mercury	Hg	0.2
Nickel	Ni	10
Lead	Pb	10
Selenium	Se	0.5
Molybdenum	Mo	10
Antimony	Sb	0.7
Zinc	Zn	50
Fluoride	F-	150
Chloride	Cl-	15000
Sulphates	SO4	20000
Total Dissolved Solids	TDS	60000